

On further calculation AB<sup>2</sup> = 676 - 576 By subtraction AB<sup>2</sup> = 100 By taking out the square root AB = √100 So we get Base = AB = 10cm

We know that area of  $\triangle$  ABD = ½ × b × h By substituting the values Area of  $\triangle$  ABD = ½ × 10 × 24 On further calculation Area of  $\triangle$  ABD = 120 cm<sup>2</sup>

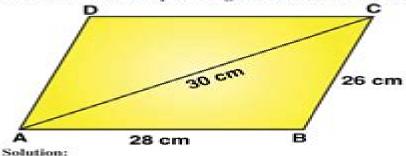
We know that the area of  $\triangle$  BCD =  $\sqrt{3}/4$  a<sup>2</sup> By substituting the values Area of  $\triangle$  BCD = (1.73/4)  $(26)^2$ So we get Area of  $\triangle$  BCD = 292.37 cm<sup>2</sup>

So we get area of quadrilateral ABCD = Area of △ ABD + Area of △ BCD By substituting the values Area of quadrilateral ABCD = 120 + 29237 By addition Area of quadrilateral ABCD = 412.37 cm<sup>2</sup>

The perimeter of quadrilateral ABCD = AB + BC + CD + DA By substituting the values Perimeter = 10 + 26 + 26 + 24 So we get Perimeter = 86cm

Therefore, the area is 412.37 cm<sup>2</sup> and perimeter is 86cm.

25. Find the area of a parallelogram ABCD in which AB = 28 cm, BC = 26 cm and diagonal AC = 30 cm.



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